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CONSULTANTS & TESTING CENTER

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NABL ACCREDITED AS PER ISO/IEC 17025:2005

Job No.: CECTC-BBMP-KRIDL-W.No.14-2015-16 11.04.2015

Aggregate Impact Value
IS: 2386 Part IV

Client	**Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Agency	**Technical Manager (West),** KRIDL, PIU, Bangalore.
Name of the Work	Re-Construction of roads and drain at 7th B Cross Diffence Colony connecting to Munikondappa Layout in Ward No. 14, Bagalagunte, BBMP, Bangalore.
Reference	EE/DD/WO/373/2014-15 Dated: 31.03.2015
Sample ID	WMM Layer
Type of Mix	Wet Mix macadam
Date of Testing	11.04.2015

Sl No.	Details	Trial No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	385	388	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	85	88	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	300	300	
4	Aggregate Impact value = percent fines	22.08	22.68	
	100* (W_2/W_1)%			22.38

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

Note:

→ This test report should not be reproduced except in full, without written approval of the laboratory
→ The results indicated above are based on the tests carried out on the samples received in the laboratory
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Job No.: CECTC-BBMP-KRIDL-W.No.14-2015-16 11.04.2015

Aggregate Impact Value
IS: 2386 Part IV

Client	**Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Agency	**Technical Manager (West),** KRIDL, PIU, Bangalore.
Name of the Work	Re-Construction of roads and drain at 7th B Cross Diffence Colony connecting to Munikondappa Layout in Ward No. 14, Bagalagunte, BBMP, Bangalore.
Reference	EE/DD/WO/373/2014-15 Dated: 31.03.2015
Sample ID	WMM Layer
Type of Mix	Wet Mix macadam
Date of Testing	11.04.2015

Sl No.	Details	Trial No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	383	387	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	84	87	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	299	300	
4	Aggregate Impact value = percent fines	21.93	22.48	
	100* (W_2/W_1)%			22.21

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

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Job No.: CECTC-BBMP-KRIDL-W.No.14-2016-17 11.04.2015

GRADATION FOR WMM
MORTH TABLE-400-11

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, PIU, Bangalore.

Name of Work : Re-Construction of roads and drain at 7th B Cross Diffence Colony connecting to Munikondappa Layout in Ward No. 14, Bagalagunte, BBMP, Bangalore.

Reference : EE/DD/WO/373/2014-15 Dated: 31.03.2015

Date of Testing : 11.04.2015

Material : WMM

Sample ID : WMM Layer Oven Dry Wt (gm): **13485**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	310	310	2.3	97.7	95-100
22.4	3625	3935	29.2	70.8	60-80
11.2	3245	7180	53.2	46.8	40-60
4.75	2125	9305	69.0	31.0	25-40
2.36	1855	11160	82.8	17.2	15-30
0.600	925	12085	89.6	10.4	8-22
0.075	1055	13140	97.4	2.6	0-8

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Job No.: CECTC-BBMP-KRIDL-W.No.14-2016-17 11.04.2015

GRADATION FOR WMM
MORTH TABLE-400-11

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, PIU, Bangalore.

Name of Work : Re-Construction of roads and drain at 7th B Cross Diffence Colony connecting to Munikondappa Layout in Ward No. 14, Bagalagunte, BBMP, Bangalore.

Reference : EE/DD/WO/373/2014-15 Dated: 31.03.2015

Date of Testing : 11.04.2015

Material : WMM

Sample ID : WMM Layer Oven Dry Wt (gm): **13845**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	355	355	2.6	97.4	95-100
22.4	3675	4030	29.1	70.9	60-80
11.2	3225	7255	52.4	47.6	40-60
4.75	2635	9890	71.4	28.6	25-40
2.36	1810	11700	84.5	15.5	15-30
0.600	745	12445	89.9	10.1	8-22
0.075	1085	13530	97.7	2.3	0-8

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Job No.: CECTC-BBMP-KRIDL-W.No.14-2016-17 16.04.2015

TEST REPORT ON DETERMINATION OF BITUMEN CHARACTERISTICS

CLIENT	:	**Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
AGENCY	:	**Technical Manager (West),** KRIDL, PIU, Bangalore.
NAME OF THE WORK	:	Re-Construction of roads and drain at 7th B Cross Diffence Colony connecting to Munikondappa Layout in Ward No. 14, Bagalagunte, BBMP, Bangalore.
REFERENCE	:	EE/DD/WO/373/2014-15 Dated: 31.03.2015
SAMPLE ID	:	Bituminous Macadam
DATE OF TESTING	:	16.04.2015

The results of the tests conducted on the bitumen sample.

Sl. No	Description	Test Method as per IS	Test Result	Requirement as per IS:73:2013
1	Penetration at 25 ^{0}C, 1/10 mm	IS :1203 -1978 (RA-2009)	91	80 to 100
2	Softening point, ^{0}C	IS :1205 -1978 (RA-2009)	52	Min. 40
3	Ductility at 27^{0}C, cm	IS :1208 -1978 (RA-2009)	100 >	Min. 75
4	Flash Point, ^{0}C	IS :1209 -1978 (RA-2009)	314	Min. 220

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು